

Appl. No. : Unknown  
Filed : Herewith

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently amended) An dental implant ~~(1) for insertion into designed to be fitted in a hole (2a)~~ formed in jaw bone (2) and overlying soft tissue (3), the dental implant and comprising:

a portion to be placed against ~~the~~ an upper edge (2b) of the jaw bone, wherein ~~characterized in that~~, along at least most of its peripheral extent, the portion is provided with at least one groove configured grooves (9, 9') or recesses ~~designed to stimulate bone movement and bone ingrowth (10) and through, by means of said bone ingrowth, to form a barrier against substantial or visible subsidence, around the portion, of the bone (2) with overlying soft tissue (3).~~

2. (Currently amended) The dental implant as ~~elaimed in patent claim 1, wherein the implant comprises~~ characterized in that two or more grooves that are, for example substantially parallel grooves and configured, ~~are arranged to be placed against the upper edge (2b) of the jaw bone.~~

3. (Currently amended) The dental implant as ~~elaimed in patent claim 1 or 2, wherein~~ characterized in that each groove (9, 9') or has recess ~~consists of an arc-shaped that follows or curved groove or set of recesses following a corresponding arc- shaped or curved-jaw bone.~~

4. (Currently amended) The dental implant as ~~elaimed in patent claim 1, 2 or 3, wherein~~ characterized in that each groove or recess (9, 9') has a cup-shaped cross section (9e), for example a cross section of semi-circular shape, hyperbola shape or semi-elliptical shape, or a rectangular cross section with rounded corners, having a depth (D) of between about 50 -100  $\mu\text{m}$ , preferably ca. 70 $\mu\text{m}$ .

5. (Currently amended) The dental implant as in claim 1, wherein ~~elaimed in any of patent claims 1 - 4, characterized in that each groove (9, 9') or recess has a cup-shaped cross~~

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section and (9e), for example a cross section of semi-circular shape, hyperbola shape, or semi-elliptical shape, having a width (B) in the range of between about 70 – 160  $\mu\text{m}$ , and preferably has a value of ca. 110 $\mu\text{m}$ .

6. (Canceled)

7. (Currently amended) The dental implant as in Claim 1, wherein ~~elaimed in~~ patent claim 6, characterized in that the ingrowth of bone into said groove or grooves or recesses prevents exposure of upper parts of the implant and thus visible exposure of these parts.

8. (Currently amended) The dental implant as in claim 1, wherein ~~elaimed in any~~ of patent claims 5–7, characterized in that the bone ingrowth (10) established in the groove or grooves (9, 9') and/or recesses also prevents bacteria and/or organisms from passing down from the upper parts of the dental implant to the underlying parts of the dental implant (4d).

9. (Currently amended) The dental implant as in claim 1, wherein ~~elaimed in any~~ of patent claims 8, characterized in that the portion is provided with a groove (9, 9') which extends all round the dental implant and surface and which is located at the upper/outer parts of the portion and extends substantially in a cross-section substantially at a right angle angles to the longitudinal axis (4e) of the dental implant.

10. (Currently amended) The dental implant as in claim 1, wherein ~~elaimed in any~~ of patent claims 9, characterized in that the dental implant includes a groove and/or recess of the outer/upper portion is/are that is coordinated with other grooves and/or recesses on another portion or other portions of the dental implant.

11. (New) The dental implant as in claim 4, wherein the cup-shaped cross section has a semi-circular shape, hyperbola shape semi-elliptical shape, or a rectangular shape with rounded corners.

12. (New) The dental implant as in claim 11, wherein the depth of the groove is about 70 $\mu\text{m}$ .

13. (New) The dental implant as in claim 5, wherein the cup-shaped cross section has a semi-circular shape, hyperbola shape, or semi-elliptical shape.

14. (New) The dental implant as in claim 13, wherein the width of the groove is about 110 $\mu\text{m}$ .